JOURNAL OF

VESTIBULAR RESEARCH

Equilibrium & Orientation

An International Journal of Experimental and Clinical Vestibular Science

Contents/Author/Keyword Index

Volume 5, 1995

Pergamon

JOURNAL OF VESTIBULAR RESEARCH
Equilibrium and Orientation

Co-Editors-in-Chief

Ralph M. Jell
Basic Science

Desmond J. Ireland
Clinical Science

Garfield-Weston Vestibular Laboratory
The University of Manitoba Health Sciences Research Centre MS748
820 Sherbrooke Street
Winnipeg, MB, Canada R3A 1R9
E-mail Address: JELL@CC.UMANITOBA.CA

Chairman

Geoffrey Melvill Jones
Department of Clinical Neurosciences
The University of Calgary Health Sciences Centre
3330 Hospital Drive N.W., Calgary, Alberta, Canada

Section Editors

Spatial Orientation
James R. Lackner
Ashton Graybiel Spatial Orientation Laboratory
Brandeis University
Waltham, MA 02254-9110

Alain Berthoz
Laboratoire de Physiologie Neurosensorielle
CNRS
15, Rue de L'Ecole de Medecine
75720 Paris Cedex 06, France

Neurochemistry and Neuropharmacology
Ottavio Pompeiano
Department of Physiology & Biochemistry
University of Pisa
Via S. Zeno 20-31
56127 Pisa, Italy

Kanemasa Mizukoshi
Dept. of Otolaryngology
Toyama Med. & Pharm. University
2630 Sugitani, Toyama
930-01, Japan

Theory and Modelling
Graham Barnes
MRC Human Movement and Balance Unit
The Institute of Neurology
Queen Square
London WC1N 3BG, UK

Paul DiZio
Ashton Graybiel Spatial Orientation Laboratory
Brandeis University
Waltham, MA 02254-9110

Anatomy and Cell Biology
Jean A. Buettner-Ennever
Institute of Neuropathology
University of Munich
Pettenkoferstr. 12
D-8000 Munich 2, Germany

Manning J. Correia
Departments of Otolaryngology & Physiology & Biophysics
The University of Texas Medical Branch at Galveston
7.318 John Sealy Hospital, Route E-03
Galveston, TX 77550-2778

Gaze Control
Volker Henn
Department of Neurology
University Hospital
CH-8091 Zurich, Switzerland

Gary D. Paige
Department of Neurology
University of Rochester Medical Center
601 Elmwood Avenue, Box 673
Rochester, NY 14642-8673

Oculomotor and Vestibulo-Ocular
G. Michael Halmagyi
Royal Prince Alfred Hospital
Dept. of Neurology
Camperdown NSW
2050 Sydney, Australia

Thomas Brandt
Ludwig Maximilians-Universität München
Klinikum Großhadern
NRO, Postfach 7012
8000 München 70, Germany

Posture and Balance Control
F. Owen Black
1040 N.W. 22nd Avenue, (N010)
Portland, OR 97210

John H.J. Allum
University ORL Clinic, Basel
Division of Exp. Audiology & Neurootology
Universitäts HNO-Klinik
CH-4031 Basel, Switzerland

Editorial Board

Robert W. Baloh
Los Angeles, CA
Hugh O. Barber
Toronto, Ontario, Canada
Kenneth Brookler
New York, NY
Bernard Cohen
New York, NY
Ian S. Curthoys
Sydney, Australia
Johannes Dichgans
Tübingen, Germany
Malcolm D. Graham
Savannah, GA
Fred E. Guedry, Jr.
Pensacola, FL
Timothy Hain
Chicago, IL
Susan J. Herdman
Miami, FL
Makoto Igarashi
Tokyo, Japan
I.B. Koslovskaya
Moscow, Russia
Hana Krejcova
Prague, Czechoslovakia
Toru Matsunaga
Osaka, Japan
Lewis M. Nasher
Portland, OR
Marcel Norré
Leuven, Belgium
Lars M. Ödkvist
Linköping, Sweden
Charles M. Oman
Cambridge, MA
Michael M. Paparella
Minneapolis, MN
Barry W. Peterson
Chicago, IL
Ilmari Pyykkö
Helsinki, Finland
Ted Raphan
Brooklyn, NY
Millard F. Reschke
Houston, TX
Robert H. Schor
Pittsburgh, PA
Charles W. Stockwell
Southfield, MI
Walter Waespe
Zurich, Switzerland
David S. Zee
Baltimore, MD

Editorial Office: Garfield-Weston Vestibular Laboratory, Health Sciences Clinical Research Centre MS748, University of Manitoba, 820 Sherbrooke Street, Winnipeg, MB, Canada R3A 1R9.

Publishing and Advertising Office: Elsevier Science Inc., 660 White Plains Road, Tarrytown, New York 10591-5153, USA, E-mail Address: ESUK.USA@ELSEVIER.COM.

Subscription Office: Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010-5107, USA.

Published Bimonthly. *Annual Institutional Subscription Rate* (1995): U.S. $261.00. *Professional Subscription Rate* (1995), which must be prepaid by personal check or credit card: U.S. $74.00. Prices include postage and insurance and are subject to change without notice.

Pergamon

Journal of Vestibular Research, Vol. 5, No. 6, pp. VII–XV, 1995
Copyright © 1995 Elsevier Science Inc.
Printed in the USA. All rights reserved
0957-4271/95 $9.50 + .00

CONTENTS INDEX
VOLUME 5, 1995

Volume 5, Number 1 January/February 1995

CONTENTS

Original Contributions

T.L. Chelette **E.J. Martin** **W.B. Albery**	1	The Effect of Head Tilt on Perception of Self-Orientation While in a Greater Than One G Environment
O.I. Kolev	19	Visual Hallucinations Evoked by Caloric Vestibular Stimulation in Normal Humans
C.S. Stout **W.B. Toscano** **P.S. Cowings**	25	Reliability of Psychophysiological Responses Across Multiple Motion Sickness Stimulation Tests
A. Böhmer **J. Rickenmann**	35	The Subjective Visual Vertical as a Clinical Parameter of Vestibular Function in Peripheral Vestibular Diseases
U. Büttner **M. Ott** **Ch. Helmchen** **T. Yousry**	47	Bilateral Loss of Eighth Nerve Function as the Only Clinical Sign of Vertebrobasilar Dolichoectasia
B. Tighilet **J. Leonard** **M. Lacour**	53	Betahistine Dihydrochloride Treatment Facilitates Vestibular Compensation in the Cat
	I	Vestibular Bibliography

INDEXED IN Cam. Sci. Abstr., CABS, ISI, PsychINFO

ISSN 0957-4271
(936)

CONTENTS

Review

I.S. Curthoys
G.M. Halmagyi 67 Vestibular Compensation: A Review of the Oculomotor, Neural, and Clinical Consequences of Unilateral Vestibular Loss

Original Contributions

W. Bles
M. Jelmorini
H. Bekkering
B. de Graaf 109 Arthrokinetic Information Affects Linear Self-Motion Perception

S. Uimonen
K. Laitakari
H. Kiukaanniemi
M. Sorri 117 Does Posturography Differentiate Malingerers From Vertiginous Patients?

P. Stivalet
C. Marendaz
L. Barraclough
C. Mourareau 125 Effect of Gravito-Inertial Cues on the Coding of Orientation in Pre-Attentive Vision

F. Licata
G. Li Volsi
G. Maugeri
F. Santangelo 137 Neuronal Responses in Vestibular Nuclei to Dorsal Raphe Electrical Activation

I Vestibular Bibliography

CONTENTS

Review

V.J. Wilson, R. Boyle, K. Fukushima, P.K. Rose, Y. Shinoda, Y. Sugiuchi, Y. Uchino 147 The Vestibulocollic Reflex

Original Contributions

J. Kröller, F. Behrens 171 Investigation of the Horizontal, Vertical, and Oblique Optokinetic Nystagmus and Afternystagmus in Squirrel Monkeys

B. Tighilet, M. Lacour 187 Pharmacological Activity of the Ginkgo Biloba Extract (EGb 761) on Equilibrium Function Recovery in the Unilateral Vestibular Neurectomized Cat

M. Fetter, H. Misslisch, D. Sievering, D. Tweed 201 Effects of Full-Field Visual Input on the Three-Dimensional Properties of the Human Vestibuloocular Reflex

J. Massion, J.-C. Fabre, L. Mouchnino, A. Obadia 211 Body Orientation and Regulation of the Center of Gravity During Movement Under Water

R.H. Schor, B.J. Yates 223 Horizontal Rotation Responses of Medullary Reticular Neurons in the Decerebrate Cat

Book Review

D.A. Robinson 229 *Neural Modeling and Neural Networks*, edited by F. Ventriglia

I Vestibular Bibliography

CONTENTS

Review

Robert W. Baloh, Joseph M.R. Furman, G. Michael Halmagyi, John H.J. Allum 231 Recent Advances in Clinical Neurotology

Original Contributions

Thomas Probst, Tanja Katterbach, Eugene R. Wist 253 Vestibularly Evoked Potentials (VESTEPs) of the Horizontal Semicircular Canals under Different Body Positions in Space

Takehiko Umetani 265 Mediolateral Differential Projection to the Nodulus from the Inferior Olive in the Albino Rat: A Retrograde WGA-HRP Study

B.S. Mesland, A.H. Wertheim 277 Visual and Nonvisual Contributions to Perceived Ego-Motion Studied with a New Psychophysical Method

R.V. Kenyon, R. Kerschmann, R. Sgarioto, S. Jun, J. Vellinger 289 Normal Vestibular Function in Chicks after Partial Exposure to Microgravity during Development

William P. Huebner, William H. Paloski, Millard F. Reschke, Jacob J. Bloomberg 299 Geometric Adjustments to Account for Eye Eccentricity in Processing Horizontal and Vertical Eye and Head Movement Data

Joseph M. Furman, John D. Durrant 323 Head-Only Rotational Testing: Influence of Volition and Vision

CONTENTS

Original Contributions

B.J. McGrath
F.E. Guedry
C.M. Oman
A.H. Rupert
331 Vestibulo-Ocular Response of Human Subjects Seated in a Pivoting Support System During 3 G_z Centrifuge Stimulation

R.W. Baloh
Q.Y. Yue
J.L. Demer
349 The Linear Vestibulo-Ocular Reflex in Normal Subjects and Patients With Vestibular and Cerebellar Lesions

C.R. Gordon
O. Spitzer
I. Doweck
Y. Melamed
A. Shupak
363 Clinical Features of Mal de Debarquement: Adaptation and Habituation to Sea Conditions

J.M. Hanson
J.A. Goebel
371 Head Slippage During Broad-Frequency Rotational Chair Testing

Short Communication

E. Vitte
A. Sémont
377 Assessment of Vestibular Function by Videonystagmoscopy

Book Review

A. Sémont
385 *Le Vertige*, by P. Liard, G. Gremion, J.P. Guyot, R. Häusler, J.-P. Michel, J. Rohr-Le Floch, D. Vibert

CONTENTS

Special Issue
Spatial Orientation (AFOSR)

Guest Editorial

D.L. Collins **J.R. Lackner**	389	The United States Air Force Spatial Orientation Program

Original Contributions

B. Bridgeman	393	Direction Constancy in Rapidly Refreshed Video Displays
F.H. Previc **R.L. Neel**	399	The Effects of Visual Surround Eccentricity and Size on Manual and Postural Control
D.L. Collins **G. Harrison**	405	Spatial Disorientation Episodes Among F-15C Pilots During Operation Desert Storm
K.A. Turano	411	Self-Motion Path Discrimination: Effects of Image Stabilization
J. Epelboim **E. Kowler** **R.M. Steinman** **H. Collewijn** **C.J. Erkelens** **Z. Pizlo**	421	When Push Comes to Shove: Compensation for Passive Perturbations of the Head During Natural Gaze Shifts
I. Hadani	443	The Spin Theory—A Navigational Approach to Space Perception
D. Regan	455	Spatial Orientation in Aviation: Visual Contributions
M.R. Endsley **S.A. Rosiles**	473	Auditory Localization for Spatial Orientation
R.H. Gilkey **T.R. Anderson**	487	The Accuracy of Absolute Localization Judgments for Speech Stimuli
L. Matin **W. Li**	499	Multimodal Basis for Egocentric Spatial Localization and Orientation
	I	Vestibular Bibliography
	V	Contents/Author/Keyword Index Volume 5, 1995